

### ABSTRACT

This invention relates to a semiconductor laser apparatus having a structure to prevent corrosion in a refrigerant flow path of a heat sink and cool stably a semiconductor laser array over a long period. The semiconductor laser apparatus has a semiconductor laser stack, a refrigerant supplier, an insulating piping, and a refrigerant. The refrigerant supplier supplies the refrigerant to the semiconductor laser stack. The refrigerant is comprised of fluorocarbon. The insulating piping is an insulating piping with flexibility. An grounded conductive material is arranged inside the insulating piping. The conductive material operates to remove static electricity generated where the refrigerant flows inside the insulating piping.